

**DUTY STATEMENT**

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**DUTY STATEMENT**

Employee Name: Vacant	Current Date: 12/xx/2022
Classification: Air Resources Engineer	Position #: 673-920-3735-017
Division/Office: STCD/Advanced Clean Cars Branch	CBID: R09
Section: ZEV Infrastructure Section	
Supervisor Name: Andrew Martinez	Supervisor Classification: Air Resources Supervisor I

I certify that this duty statement represents an accurate description of the essential functions of this position.	
Supervisor:	Date:

I have read this duty statement and agree that it represents the duties I am assigned.	
Employee:	Date:

**SPECIAL REQUIREMENTS OF POSITION (IF ANY):**

- ☒ Designated under Conflict of Interest Code.
- ☐ Duties performed may require pre-employment physical.
- ☐ Duties performed may require drug testing.
- ☒ Duties require participation in the DMV Pull Notice Program.
- ☐ Requires the utilization of a 32-pound self-contained breathing apparatus.
- ☐ Operates heavy motorized vehicles.
- ☐ Requires repetitive movement of heavy objects.
- ☐ Works at elevated heights or near fast moving machinery or traffic.
- ☐ Performs other duties requiring high physical demand. (Explain below):
- ☐ Duties require use of hearing protection and annual hearing examinations.

**SUPERVISION EXERCISED**

<input checked="" type="checkbox"/> None	<input type="checkbox"/> Lead Person
<input type="checkbox"/> Supervisor	<input type="checkbox"/> Team Leader

FOR SUPERVISORY POSITIONS ONLY: Indicate the number of positions by classification that this position DIRECTLY supervises: N/A

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Total number of positions in Section/Branch/Office for which this position is responsible: N/A

**FOR LEADPERSONS OR TEAM LEADERS ONLY:**

Indicate the number of positions by classification that this position LEADS: N/A

**MISSION OF SECTION:** The ZEV Infrastructure Section (section) is responsible for developing and implementing policies to support the market for passenger zero-emission vehicles (ZEVs) in conventional and new mobility applications, including actions to support the Advanced Clean Cars II (ACC II) regulations and the Clean Miles Standard. The section is part of the Advanced Clean Cars Branch (ACCB) within the Sustainable Transportation and Communities Division (STCD). The mission of ACCB is to foster a sustainable market for zero and ultra-clean emission light-duty vehicle technologies through regulations and market-supporting policies.

Section projects include technical, environmental, and economic assessments of electric charging and hydrogen station networks, as well as assessments of fuel cell technologies used on fuel cell electric vehicles. The section leads hydrogen station testing projects, network analysis in support of Assembly Bill (AB) 8 in partnership with the California Energy Commission, and assessments of ZEV infrastructure investments including investments made by Electrify America. The section also leads the development and implementation of the Electric Vehicle Supply Equipment (EVSE) Standards regulation to enhance access to charging. In addition, the section conducts unique assessments of infrastructure requirements for new mobility fleets such as ride-hailing and delivery services, automated vehicle applications, and equitable access to convenient and affordable ZEV charging and fueling across California's communities. Supporting the commercialization of ZEVs and the associated infrastructure includes engagement with the Governor's Office, other State agencies, national laboratories, technical committees, and public-private initiatives such as the Hydrogen Fuel Cell Partnership through information exchange, technical analysis, and public outreach.

**CONCEPT OF POSITION:** Under supervision of an Air Resources Supervisor I, the Air Resources Engineer (ARE) will work as part of a hydrogen infrastructure team towards the goal of supporting the deployment of light-duty fuel cell electric vehicle (FCEV) by reducing barriers related to hydrogen fueling infrastructure. The ARE's core tasks will focus on analysis of California's developing hydrogen fueling network. Analyses performed by the ARE will help inform hydrogen infrastructure support programs at the California Air Resources Board (CARB) and other agencies like the California Energy Commission. The ARE's work will also be instrumental in tracking progress of the deployment of FCEVs and associated infrastructure and identifying gaps that may be addressed by new programs, modification to existing programs, or collaboration with private and public stakeholders.

Geospatial analysis will be central to many of the projects that the ARE will work on. The ARE will evaluate the geographic distribution of station coverage and capacity provided by the developing hydrogen fueling network and use these metrics to help determine how infrastructure growth supports current and future FCEV deployment and where/how future network development may need to improve to enable FCEV market growth. The ARE will evaluate the coverage and capacity metrics, along with others, for the general California population and specifically for communities that are disproportionately affected by pollution and socioeconomic stressors to ensure that hydrogen infrastructure is developed equitably in California. The ARE will also use location-based analysis to support evaluation of applications for incentive program

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funds like the Energy Commission's Clean Transportation Program and CARB's infrastructure crediting provisions under the Low Carbon Fuel Standard.

The ARE will also interact with public and private stakeholders in the hydrogen fueling and FCEV community. The ARE will support the Air Resources Supervisor and other CARB personnel participating in activities at the Hydrogen Fuel Cell Partnership and for California's Hydrogen Hub efforts. The ARE will also be responsible for tracking public and private efforts to evaluate and improve hydrogen fueling station reliability.

Zero-emission infrastructure is a high priority for a variety of audiences and transparency in the public process is a priority at CARB. The ARE will be responsible for drafting reports and other forms of written and verbal communication related to hydrogen fueling infrastructure development and intended for a wide range of audiences.

Travel may be required up to 5% of the time for meetings, conferences, and stakeholder outreach.

<u>% OF TIME</u>	<u>RESPONSIBILITIES OF POSITION</u>
30%-E	<p>Perform a variety of geospatial analyses to track and assess the development of California's hydrogen fueling network and deployment of FCEVs. Utilize geospatial mapping and analysis tools (primarily ArcMap and ArcGIS Pro) to evaluate the degree to which hydrogen network development supports current FCEV deployment and customer needs, projected FCEV sales, and scenarios that enable accelerated FCEV deployment. Develop insights from these analyses to inform ACC II compliance and market assessments.</p> <p>Develop new mapping and analytical processes to advance CARB's understanding of network development needs as the hydrogen fueling industry evolves. Utilize mapping and analysis to identify gaps at the State and local level in network development and develop suggested actions to address gaps.</p>
25%-E	<p>Support implementation of multiple ongoing programs administered by CARB and other State agencies that advance hydrogen fueling infrastructure in California. Potential projects include but are not limited to: 1) review applications to the Low Carbon Fuel Standard for Hydrogen Refueling Infrastructure credits focused on evaluating proposed locations and capacities; 2) review applications to the California Energy Commission for grant funding of hydrogen fueling stations; 3) review proposals for projects in California's Hydrogen Hubs initiative; and 4) draft responses to CARB's Legislative Office when legislation is being developed related to hydrogen fueling infrastructure.</p>

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20%-E	Perform analyses of barriers facing hydrogen fueling network development and FCEV deployment. Investigate and track local, national, and international FCEV and hydrogen fueling markets. Assess the impacts of the hydrogen fueling network in underserved communities and the contribution of FCEVs and hydrogen fueling to ensuring environmental justice and equity in ZEV adoption. Utilize all analyses to author and contribute to annual hydrogen infrastructure tracking reports published by CARB and the Energy Commission.
15%-E	Participate in CARB's public-private coordination efforts to further hydrogen fueling network development and FCEV sales in California and other jurisdictions. Participate in working groups focused on market developments, especially at the Hydrogen Fuel Cell Partnership, California's multi-agency efforts for hydrogen corridor funding under the federal Infrastructure Investment and Jobs Act, and the ARCHES Hydrogen Hub funding effort in California. Serve as the principal investigator and/or contract manager for research projects completed in partnership with State and federal agencies and the national laboratories. Track, report, and provide recommendations to CARB management for public and private efforts to evaluate and report hydrogen fueling station uptime and overall reliability.
10%-M	Support completion of special projects as assigned by section, branch, or division management, including high-priority assignments requiring rapid response and coordination across multiple branches within the division. Work with supervisor to develop draft letters, prepare public correspondence, and complete other assignments as needed to respond to inquiries. The ARE will also draft presentations, speaking notes, and background materials for the Executive Office, Board members, or the Governor's Office.